E. TRANSITIONING N1-1 TO SECONDARY FROM PRIMARY & N1-2 TO PRIMARY FROM STANDBY

1. VERIFY MDM STATES AND MDM IDs

PCS1 Node 1: C&DH: MDM N1-1

PRIMARY NCS MDM Node 1

√STATE - Primary √MDM ID - N1-1

PCS1 Node 1: C&DH: MDM N1-2

SECONDARY NCS MDM Node 1

√STATE - Standby √MDM ID - N1-2

NOTE

If states are not correct, do not execute this procedure.

√MCC

2. COMMAND N1-1 TO SECONDARY, (N1-2 SHOULD GO TO PRIMARY)

PCS1 Node 1: C&DH: MDM N1-1

PRIMARY NCS MDM Node 1

NOTE

- 1. Sending the following command will cause the loss of PCS1, Early COMM, and OIU telemetry until OIU reconfiguration and PCS2 reconnection are done.
- 2. Possible PDI DECOM Fail message.

'MDM Major State:'

sel Commands

cmd N1-1_MDM_Xsitn_Second_State Execute

√Frame Count - <static> (Loss of PCS1 telemetry)

N1-2 should go to Primary in 20 seconds.

3. TELEMETRY RECOVERY ON PCS2

PCS2 After boot up, when task-bar appears at bottom of display

sel Arrow directly above 'PCS' logo

sel Start/Restart PCS CDS

sel Icon to open PCS CDS Main Control Panel Window

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 $\sqrt{\text{Status Box}}$ is Green and 'Connected' is displayed in the PCSCDS Main Control Panel Window

NOTE

PCS2 connection to MDM is indicated by 'Green' in the Status Box and/or 'Connected' message displayed in the PCS2 CDS Main Control.

Wibiwi Wajor Otato.

√STATE - Primary √MDM ID - N1-2

PCS2 Node 1: C&DH: MDM N1-1

SECONDARY NCS MDM Node 1

√Frame Count - <incrementing>

'MDM Major State:'

√STATE - Secondary √MDM ID - N1-1

* If States are not correct or no N1-2 TLM,

5. TELEMETRY RECOVERY ON EARLY COMM (GROUND ONLY)

NOTE

Early COMM should reconnect to N1-2 MDM on the other Orb bus automatically in about 10 seconds after N1-2 MDM becomes Primary.

Node 1: C&DH: MDM N1-2
PRIMARY NCS MDM Node 1

√Frame Count - <incrementing>

'MDM Major State:'

√MDM ID - N1-2 √MDM State - Primary

- * If Frame Count is Static after 20 seconds from the moment
- * N1-2 becomes Primary (No Early COMM telemetry received), *

* √MCC

6. TELEMETRY RECOVERY ON OIU

NOTE

Possible PDI DECOM Fail message.

CRT SM 212 OIU

BUS 3 BC - ITEM 11 EXEC BUS 4 RT - ITEM 14 EXEC

Change OIU N1 Physical Device to N1-2 - ITEM 18 +3 EXEC

CRT Reload OIU FORMAT 2 - ITEM 1 +2 EXEC

CRT SM 210 NODE

 $\sqrt{\text{PHY ID PRI MDM}}$ - N1-2 $\sqrt{\text{STATE}}$ - PRI $\sqrt{\text{FAIL}}$ -
-
-

√FRM CTR - <incrementing>